

WEST Search History

DATE: Saturday, August 24, 2002

Set Name Query

side by side

DB=USPT; PLUR=YES; OP=OR

Hit Count Set Name

result set

L23	(204/450)!.ccls	386	L23
L22	(435/6)!.ccls	13933	L22
L21	(800/295)!.ccls	436	L21
L20	(800/286)!.ccls	184	L20
L19	(800/285)!.ccls	63	L19
L18	(800/278)!.ccls	851	L18
L17	(435/419)!.ccls	1475	L17
L16	(536/24.5)!.ccls	1634	L16
L15	(536/23.1)!.ccls	8935	L15
L14	gene same silencing same plant same RNA same 25	2	L14
L13	gene same silencing same plant same RNA	25	L13
L12	gene same silencing same plant	337	L12
L11	17 and 19	0	L11
L10	16 and 19	0	L10
L9	short adj RNA adj molecules	17	L9
L8	short adj RNA molecules	313331	L8
L7	(post-transcriptional adj gene adj silencing or PTGS)	417	L7
L6	gene adj silencing	134	L6
L5	gene silencing	70775	L5
L4	L3 and RNA	54	L4
L3	11 and L2	62	L3
L2	polyacrylamide same 15% same 7M adj urea	67	L2
L1	electrophoresis	38316	L1

END OF SEARCH HISTORY

FILE 'HOME' ENTERED AT 11:08:11 ON 24 AUG 2002

=> file medline, biosis, embase, scisearch, caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 11:08:33 ON 24 AUG 2002

FILE 'BIOSIS' ENTERED AT 11:08:33 ON 24 AUG 2002

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FILE 'EMBASE' ENTERED AT 11:08:33 ON 24 AUG 2002

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FILE 'SCISEARCH' ENTERED AT 11:08:33 ON 24 AUG 2002

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FILE 'CAPLUS' ENTERED AT 11:08:33 ON 24 AUG 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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=> s gene silencing

L1 6696 GENE SILENCING

=> s post transcriptional gene silencing

L2 621 POST TRANSCRIPTIONAL GENE SILENCING

=> s l1 or l2

L3 6696 L1 OR L2

=> s RNA

L4 1449880 RNA

=> s l4 and (short RNA molecules or SRM)

L5 51 L4 AND (SHORT RNA MOLECULES OR SRM)

=> s l5 and (21 nucleotides or 25 nucleotides)

L6 0 L5 AND (21 NUCLEOTIDES OR 25 NUCLEOTIDES)

=> s l5 and (21nt or 25nt)

L7 0 L5 AND (21NT OR 25NT)

=> s l5 and (21 bases or 25 bases)

L8 0 L5 AND (21 BASES OR 25 BASES)

=> l3 and l5

L3 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l3 and l5

L9 3 L3 AND L5

=> dup rem

ENTER L# LIST OR (END):15

PROCESSING COMPLETED FOR L5

L10 24 DUP REM L5 (27 DUPLICATES REMOVED)

=> s l5 and polyacrylamide

L11 0 L5 AND POLYACRYLAMIDE

=> s l4 and polyacrylamide

L12 33288 L4 AND POLYACRYLAMIDE

=> s l4 and 15% polyacrylamide

L13 57 L4 AND 15% POLYACRYLAMIDE

=> s l13 and 7% urea

L14 0 L13 AND 7% UREA

=> s l13 and 7M urea

L15 1 L13 AND 7M UREA

=> d l9 tot ibib abs

=> dup rem

ENTER L# LIST OR (END):l13

PROCESSING COMPLETED FOR L13

L16 29 DUP REM L13 (28 DUPLICATES REMOVED)

ACCESSION NUMBER: 1996:283623 BIOSIS
DOCUMENT NUMBER: PREV199699005979
TITLE: Analysis of a tRNA gene-like sequence (t-element) with TTA
at the anticodon position in the mitochondrial DNA of
Dictyostelium discoideum.
AUTHOR(S): Pi, Min; Angata, Kiyohiko; Ikemura, Toshimichi;
Yanagisawa,
Kaichiro; Tanaka, Yoshimasa (1)
CORPORATE SOURCE: (1) Inst. Biol. Sci., Univ. Tsukuba, Tsukuba, Ibaraki 305
Japan
SOURCE: Journal of Plant Research, (1996) Vol. 109, No. 1093, pp.
1-6.
ISSN: 0918-9440.
DOCUMENT TYPE: Article
LANGUAGE: English

AB During the course of mitochondrial DNA sequencing of Dictyostelium
discoideum, a sequence with a tRNA-like structure and two genes for
tRNA-Gln(UUG) and tRNA-Trp(CCA) were found downstream of the gene for
large subunit rRNA. The existence of tRNA-Trp with CCA anticodon supports
the finding that UGA codon is not a tryptophan codon in D. discoideum
mitochondria. Interestingly, the tRNA gene-like sequence (t-element) has
TTA at the anticodon position. Northern blot analysis showed that, in low
molecular mass mitochondrial RNA fraction of growth-phase cells
and developmental stage cells, a mature transcript of the element could
not be detected in the tRNA region on an urea-denatured 15%
polyacrylamide gel, although there were several bands in the
higher molecular mass region, indicating the actual transcription of the
t-element. Southern blot analysis for total and mitochondrial DNA showed
that the element exists as a single copy, only in the mitochondrial DNA
but not in the nuclear DNA.

ACCESSION NUMBER: 1993:33656 CAPLUS

DOCUMENT NUMBER: 118:33656

TITLE: Direct quantification of picomolar concentrations of mRNAs by mathematical analysis of a reverse transcription/exponential polymerase chain reaction assay

AUTHOR(S): Wiesner, Rudolf J.

CORPORATE SOURCE: Dep. Physiol. II, Univ. Heidelberg, Heidelberg, W-6900, Germany

SOURCE: Nucleic Acids Res. (1992), 20(21), 5863-4

CODEN: NARHAD; ISSN: 0305-1048

DOCUMENT TYPE: Journal

LANGUAGE: English

AB It was recently shown that the no. of target mols. of PCR could be accurately detd. by measuring the molar concn. of a product, which accumulates in consecutive cycles by linear regression anal. Here, the method is extended to the measurement of the actual copy no. of mRNAs by performing quant. reverse transcription (RT) prior to amplification. The method was applied to the quantification of picomolar concns. of RNA extd. from frozen ventricles of female Sprague-Dawley rats (180 g) after reverse transcription and PCR using two 20 mer primers specific for and complementary to 2 isoforms of myosin heavy chain. Aliquots of 1 .mu.L were taken from the reaction after consecutive cycles and run on 15% polyacrylamide gels, which were stained with ethidium bromide. The two product bands (77 bp for .alpha. and 99

bp for .beta. MHC) were isolated from the gel, slices were trimmed, dried at 80.degree. overnight in liq. scintillation vials and the incorporated radioactivity was detd. by liq. scintillation counting. The concn. of product accumulating in consecutive cycles, Nn (moles/.mu.L) can be calcd.

from the incorporated radioactivity (cpm/mol), the specific radioactivity of the precursor dCTP (cpm/mol) in the reaction mixt. and the no. of dCTPs

which can be incorporated into the newly synthesized stretch of the product, y, according to the equation:

$$Nn(\text{moles}/\mu\text{L}) = (\text{cpm}/\mu\text{L}) / (\text{cpm}/\text{mo}$$

l .times. y). The initial concn. of a double stranded DNA template at cycle zero, N0 (moles/.mu.L) and the efficiency of amplification, eff,

can then be calcd. by linear regression anal. of the transformed equation describing product accumulation in the PCR: $\log Nn = \log \text{eff} \cdot \text{times. } n + \log N0$. Since the rat ventricle contains .apprx.3.4 mg. of total RNA/g wet wt., and .apprx.8 .times. 10⁷ myocytes/g wet wt., it can be calcd. that individual rat myocytes contain .apprx.26,000 and 6000 mols. of .alpha. and .beta. MHC mRNA, resp.

L16 ANSWER 8 OF 29

MEDLINE

DUPLICATE 5

ACCESSION NUMBER: 88021791 MEDLINE
DOCUMENT NUMBER: 88021791 PubMed ID: 2444136
TITLE: A simple and rapid solid-phase **RNA** sequencing method.
AUTHOR: Zhang Y; Liu W Y; Feng Y X; Wang T P
CORPORATE SOURCE: Department of Bioscience and Technology, Shanghai Jiao-Tong University, China.
SOURCE: ANALYTICAL BIOCHEMISTRY, (1987 Jun) 163 (2) 513-6.
Journal code: 0370535. ISSN: 0003-2697.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198710
ENTRY DATE: Entered STN: 19900305
Last Updated on STN: 19900305
Entered Medline: 19871027

Q7501-A6

AB A simple and rapid solid-phase **RNA** sequencing method has been developed based on Peattie's direct chemical method. 3'-Terminally labeled

RNA was immobilized on DEAE-cellulose sheets and followed by specific modification with dimethyl sulfate, diethylpyrocarbonate, hydroxylamine (at pH 10 for the uridine and pH 5.5 for the cytidine reaction), and cleavage reaction with aniline. **RNA** fragments were washed from the DEAE-cellulose sheets using salt solutions, precipitated with ethanol, and separated by 15% **polyacrylamide** gel electrophoresis. Due to the complete removal of the impurities normally present in the solution method, the higher resolution of the sequencing bands and lower background on the autoradiograph make this solid-phase technique more efficient. This solid-phase technique is much faster and more convenient than the original method.

8

ACCESSION NUMBER: 1985:254662 BIOSIS
DOCUMENT NUMBER: BA79:34658
TITLE: PURIFICATION OF CUCUMBER PALE FRUIT VIROID.
AUTHOR(S): UYEDA I; SHIKATA E; SANO T
CORPORATE SOURCE: FACULTY OF AGRICULTURE, HOKKAIDO UNIVERSITY, SAPPORO 060,
JAPAN.
SOURCE: ANN PHYTOPATHOL SOC JPN, (1984) 50 (3), 331-338.
CODEN: NSBGAM. ISSN: 0031-9473.
FILE SEGMENT: BA; OLD
LANGUAGE: English *58599. A5*

AB Cucumber pale fruit viroid was purified from infected cucumber leaves and stems. Nucleic acids were extracted from the frozen tissue by phenol-CHCl₃-SDS [sodium dodecyl sulfate], and precipitated with ethanol. Polysaccharides were removed by ethylene glycol monomethyl ether treatment and phenolic substances by cetyltrimethyl ammonium bromide. After the 2 M LiCl soluble fraction was treated with DNase, low MW RNA were obtained. The viroid was further purified by CF-11 cellulose chromatography and 15% polyacrylamide gel electrophoresis. Yield of the purified viroid was about 3-6 .mu.g/200 g of tissue. Five percent polyacrylamide gel electrophoresis of the purified viroid in the presence of urea revealed 2 bands associated with infectivity.

ACCESSION NUMBER: 1983:289222 BIOSIS
DOCUMENT NUMBER: BA76:46714
TITLE: ANOMALOUS CONDUCTIVITY ZONES IN ELECTROPHORESIS 3.
EXPERIMENTAL TESTS OF THE THEORY.
AUTHOR(S): SPENCER M; KIRK J M
CORPORATE SOURCE: KING'S COLL. DEP. BIOPHYSICS, 26-29 DRURY LANE, LONDON WC2B 5RL, ENGLAND.
SOURCE: ELECTROPHORESIS, (1983) 4 (1), 46-52.
CODEN: ELCTDN. ISSN: 0173-0835.
FILE SEGMENT: BA; OLD
LANGUAGE: English

AB An assumption used in developing the basic theory, that ionic retardation factors are substantially independent of solute concentration, is tested and found valid. The results of electrophoresis [of tRNA] through 15% polyacrylamide gels are in agreement with the theory. Zones of altered concentration appear in the presence of spermine tetrahydrochloride, sodium phosphate buffer (pH 7.2) or Tris-HCl (pH

7.0). The use of ionic retardation factors and transport numbers deduced from conductivity measurements leads to correct prediction of the sign of concentration change in each case. The direction and velocity of

migration of a low-concentration boundary can also be predicted, together with associated changes in pH. Further confirmation comes from a detailed analysis of published work on electrophoresis through sucrose gradients. The theoretical treatment is suitable for application to other systems (such as isoelectric focusing and isotachophoresis) where a gel is used

as a stabilizing medium, and where effects of the kind discussed may produce

L16 ANSWER 17 OF 29

MEDLINE

DUPLICATE 12

ACCESSION NUMBER: 79144731 MEDLINE

DOCUMENT NUMBER: 79144731 PubMed ID: 426779

TITLE: The postnatal methylation of transfer ribonucleic acid in brain. Evidence for the methylation of precursor transfer ribonucleic acid.

AUTHOR: Elahi E; Sellinger O Z

SOURCE: BIOCHEMICAL JOURNAL, (1979 Jan 1) 177 (1) 381-4.
Journal code: 2984726R. ISSN: 0264-6021.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197905

ENTRY DATE: Entered STN: 19900315

Last Updated on STN: 19900315

Entered Medline: 19790516

AB Incubation of 3-day-old rat brain with L-[methyl-3H]methionine resulted in

the rapid labeling of low-molecular-weight cytoplasmic RNA.

Electrophoresis in 15% polyacrylamide gels provided

evidence for the methylation of precursor tRNA molecules, and

high-performance liquid chromatography demonstrated N2-methylguanine to

be

the predominant methylated base formed during the first 2 min of labelling.

Q1501. 847

L16 ANSWER 23 OF 29 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1977:134769 BIOSIS

DOCUMENT NUMBER: BA63:29633

TITLE: UTERO GLOBIN MESSENGER **RNA** TRANSLATION IN-VITRO.

AUTHOR(S): BULLOCK D W; WOO S L C; O'MALLEY B W

SOURCE: BIOL REPROD, (1976) 15 (4), 435-443.

CODEN: BIREBV. ISSN: 0006-3363.

FILE SEGMENT: BA; OLD

LANGUAGE: Unavailable

AB The mRNA coding for the progesterone-induced protein uteroglobin was extracted from endometrial tissue of rabbits in early pregnancy and enriched by binding to oligo-dT-cellulose. After translation in a cell-free system derived from wheat germ, total mRNA activity was assessed

by measuring the incorporation of 35S-methionine into TCA-precipitable peptides and specific mRNA activity by immunoprecipitation with specific uteroglobin antibodies purified by affinity chromatography. Approximately 85% of total mRNA activity was recovered after dT-cellulose chromatography, 10% in the bound fraction and 75% in the unbound **RNA**, suggesting that the majority of endometrial mRNA species lacked poly A sequences of longer than about 20 residues. No poly A could be detected by 3H-poly U hybridization in the unbound fraction. In contrast, 69% of total mRNA activity was present in dT-bound **RNA** from rabbit liver. The immunoprecipitable cell-free translation products of endometrial dT-**RNA** gave a single peak of radioactivity on electrophoresis in 15% polyacrylamide gels containing sodium dodecyl sulfate. The peak was completely displaced by the addition of an excess of authentic nonradioactive uteroglobin to the immunoprecipitation reaction and was absent from products of translation without added endometrial **RNA**. The cell-free product migrated more slowly than authentic uteroglobin, suggesting the synthesis of a precursor protein. So uteroglobin mRNA could be detected in dT-bound **RNA** from rabbit liver. The proportion of uteroglobin mRNA in endometrial dT-bound **RNA** reached a peak on day 4 of pregnancy and declined subsequently to nonpregnant levels on day 8, a pattern similar to that of ute

4 ANSWER 2 OF 2 MEDLINE DUPLICATE 1

ACCESSION NUMBER: 2000011521 MEDLINE

DOCUMENT NUMBER: 20011521

TITLE: A species of small antisense RNA in posttranscriptional **gene silencing** in plants [see comments].

COMMENT: Comment in: Science 1999 Oct 29;286(5441):886

AUTHOR: Hamilton A J; Baulcombe D C

CORPORATE SOURCE: Sainsbury Laboratory, John Innes Centre, Colney Lane, Norwich NR4 7UH, UK.

SOURCE: SCIENCE, (1999 Oct 29) 286 (5441) 950-2. Journal code: UJ7. ISSN: 0036-8075.

PUB. COUNTRY: United States

LANGUAGE: English

FILE SEGMENT: Priority Journals; Cancer Journals

ENTRY MONTH: 200001

ENTRY WEEK: 20000104

AB Posttranscriptional **gene silencing** (PTGS) is a nucleotide sequence-specific defense mechanism that can target both cellular and viral mRNAs. Here, three types of transgene-induced PTGS and one example of virus-induced PTGS were analyzed in plants. In each case, antisense **RNA** complementary to the targeted mRNA was detected. These **RNA** molecules were of a uniform length, estimated at **25 nucleotides**, and their accumulation required either transgene sense transcription or **RNA** virus replication. Thus, the 25-nucleotide antisense **RNA** is likely synthesized from an **RNA** template and may represent the specificity determinant of PTGS.

WEST Search History

DATE: Sunday, August 25, 2002

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT; PLUR=YES; OP=OR</i>			
L2	(435/468).!ccls	955	L2
L1	(435/320.1).!ccls	13109	L1

END OF SEARCH HISTORY